

CLAIM(S):

- SUB A1
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1. A liquid handling system comprising:
a container capable of holding a liquid;
storage means, coupled with the container, for electronically storing
information relating to the liquid;
communication means for storing information to and reading
information from the storage means; and
controller means, coupled with the communication means, for
controlling processing of the liquid based on information
read from the storage means by the communication means.
 2. The liquid handling system of claim 1, wherein the controller means
comprises a user-interface capable of receiving input from a user.
 3. The liquid handling system of claim 2, wherein the controller means
further controls processing the liquid based on input received by the user-interface
from the user.
 4. The liquid handling system of claim 3, wherein the controller means
further controls processing the liquid by comparing the input received by the user-
interface from the user to information read from the storage means to determine
whether the liquid in the container should be dispensed to a process.
 5. The liquid handling system of claim 2, wherein the user-interface
comprises a touch screen capable of receiving input from the user and displaying
information about the liquid contained in the container.

SUB A1>

6. The liquid handling system of claim 1, the liquid handling system further comprising:

a cap for coupling with the container such that the liquid is sealed in the container; and
a connector for coupling with the cap such that the liquid can be dispensed from the container through the connector.

7. The liquid handling system of claim 6, wherein the storage means is mounted on the cap and the communication means is mounted on the connector.

8. The liquid handling system of claim 6, wherein the storage means is mounted on the connector and the communication means is mounted on the cap.

9. The liquid handling system of claim 1, wherein the communication means is a radio frequency (RF) antenna and the storage means is a passive radio frequency identification (RFID) tag.

10. The liquid handling system of claim 9, wherein the RFID tag comprises a passive RF transponder and an electrically erasable programmable read-only memory (EEPROM).

11. A liquid handling system comprising:
a container having an opening and capable of holding a liquid;
a cap for coupling with the opening such that the liquid is sealed in the container;
a radio frequency identification (RFID) tag mounted on the cap;
a connector for coupling with the cap such that the liquid can be dispensed from the container through the connector;

SUB A1>

a radio frequency (RF) antenna mounted on the connector which is capable of storing information to and reading information from the RFID tag; and
a controller coupled with the RF antenna such that the controller is capable of processing the liquid from the container based on information read from the RFID tag by the RF antenna.

12. The liquid handling system of claim 11, the connector further comprising:

a connector head; and
a probe extending from the connector head and insertable through a center of the cap and into the opening, the probe having a flow passage therein

13. The liquid handling system of claim 12, wherein a pump is coupled with the probe and with the flow passage for pumping liquid through the probe and the flow passage.

14. The liquid handling system of claim 11, wherein the RFID tag comprises a passive RF transponder and an electrically erasable programmable read-only memory (EEPROM).

15. The liquid handling system of claim 14, wherein the EEPROM stores information about the liquid contained in the container.

16. A method of handling liquids, the method comprising:
providing a container capable of holding a liquid;
coupling an electronic storage device to the container;

electronically storing information about the liquid on the electronic storage device;
reading information from the electronic storage device; and
controlling processing of the liquid from the container based on information read from the electronic storage device.

17. The method of claim 16, further comprising:
coupling a cap to the container such that the liquid is sealed in the container;
coupling a connector to the cap such that the liquid can be dispensed from the container through the connector; and
mounting an antenna to the connector.
18. The method of claim 16, wherein the electronic storage device is a RFID tag comprising a passive RF transponder and an electrically erasable programmable read-only memory (EEPROM).
19. The method of claim 18, wherein the EEPROM stores information relating to the liquid contained in the container.

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